WHAT IS CLAIMED IS:

l		1.	A system for coupling a high intensity focused ultrasound transducer to			
2	a patient com	comprising:				
3		a circu	it for conveying a coupling fluid;			
1		pump	for circulating coupling fluid through the circuit;			
5		a vacu	um chamber connected to apply a pressure gradient to said circuit such			
5	that dissolved	dissolved gasses are drawn out of said coupling fluid; and				
7		a coup	ling reservoir connected to said circuit for coupling a transducer to a			
3	patient.					
l		2.	The system as described in claim 1 further comprising a chiller on said			
2	circuit for cooling said coupling fluid.					
l		3.	The system as described in claim 1, wherein said vacuum chamber			
2	comprises one	e or mor	e gas permeable membranes through which gas may be drawn from said			
3	fluid.					
l		4.	The system as described in claim 1, wherein the pump is also			
2	connected to	connected to draw a vacuum in the vacuum chamber.				
l		5.	The system as described in claim 1, further comprising a control device			
2	for adjusting		culation pump.			
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l		6.	The system as described in claim 1, further comprising one or more			
2	sensors.					
i		7.	The system of claim 6, wherein said one or more sensors are in			
2	electronic communication with said control device.					
1		8.	The system as described in claim 6, wherein said sensor(s) canable of			
	ronarting info		The system as described in claim 6, wherein said sensor(s) capable of			
2	reporting into	imation	to an operator.			
l		9.	The system of claim 1, wherein said fluid is a coolant for controlling			
2	the temperature of a transducer.					
1		10.	The system of claim 1, further comprising a storage tank located on			
2	said circuit.	•				

l		11.	The system of claim 1, further comprising a means for reducing		
2	pressure and volume fluctuations.				
1 2	circuit.	12.	The system as described in claim 1, having one or more valves in said		
1		13.	The system as described in claim 1, wherein said fluid is water.		
1		14.	An apparatus for performing high intensity focused ultrasound (HIFU)		
2	procedures, the apparatus comprising:				
3	a first housing having a high intensity focused ultrasound (HIFU) transducer;				
4	a second housing having system electrofics for controlling said transducer, a				
5	user interface, a display and a power supply; and				
6		a syste	em for circulating a degassed coupling fluid wherein said coupling fluid		
7	is circulated between said first housing and said second housing and said first housing and				
8	said second housing are in electronic communication.				
1		15.	The apparatus as described in claim 14, wherein said system for		
2	circulating a d	legassec	coupling fluid further comprises one or more sensors in electronic		
3	communication with said system electronics, and said system electronics able to operate as a				
4	controller for	said sys	tem for circulating a degassed coupling fluid.		
1		16.	The apparatus as described in claim 14, wherein the system for		
2	.circulating a	degasse	d coupling fluid is a cooling system for dissipating heat from said high		
3	intensity focu	sed ultra	asound (HIFU) transducer.		
1		17.	A method for performing ultrasound therapy, said method comprising		
2		applyi	ng an ultrasound transducer to a tissue surface of the patient;		
3		energi	zing the transducer to emit ultrasonic energy to the patient;		
4		circula	ting a coupling fluid to the transducer; and		
5		applyi	ng a vacuum to the circulating coupling fluid to degas said fluid.		